|   |                |               |              |          |  |          |                |                 |  |             |                |          | 1  | _        | 1,       | , ,          | 67954    |            |            |            |  |          | Reexamination |          |          |                 |           |          |                 |                 |   |   |   |
|---|----------------|---------------|--------------|----------|--|----------|----------------|-----------------|--|-------------|----------------|----------|--|----------|----------|--------------|----------|------------|------------|------------|--|----------|---------------|----------|----------|-----------------|-----------|----------|-----------------|-----------------|---|---|---|
|   |                |               |              |          |  |          |                |                 |  |             |                |          |  | Ζ        | 2/       | /4           | 04       | <u>e</u> _ |            | 1          | 9  |          | NO NAME       |          |          |                 |           |          |                 |                 |   |   |   |
|   |                |               |              |          |  |          |                |                 |  |             |                | -        | Ex   | aŋ/ii    | nei      | 7            |          |            |            |            |  |          | Art Unit      |          |          |                 |           |          |                 |                 | - |   |   |
|   |                | 111111        |              |          |  |          |                |                 |  |             |                | - 1      | ***  |          |          |              | •        |            | :          |            |  |          |               |          |          |                 |           |          |                 |                 |   |   |   |
|   |                |               | -            |          |  |          |                |                 |  |             |                |          |  | L        |          |              |          |            |            | • •        | : <u>.                                    </u> | <u>.</u> |               |          | <u> </u> |                 |           |          |                 |                 |   |   |   |
|   | •              | •             |              | _        | <u>.                                    </u> |          | <br>ات         |                 |  |             |                | <u> </u> |  | -        |          | _            |          |            |            |            |  |          |               |          |          |                 |           |          | _               |                 | - |   | _ |
|   | √ Rejected _ ( |               |              |          |  |          |                |                 | T)                                     | hrou        | era            | il)=     |  | ١        | ١,       | Non Flect    |          |            | ted        | hed        |  | Appeal   |               |          |          | 1               |           |          |                 |                 |   |   |   |
|   |                |               | $oxed{oxed}$ | +        |  |          |                |                 | Cancelled                              |             |                |          |  |          | N        | '            | 1011     | -Elected   |            | İ          | Α  | Appear   |               |          |          |                 |           |          |                 |                 |   |   |   |
|   |                | <b>.</b> .    | =            | Allowed  |  |          |                |                 | 1.1                                    |             | Restricted     |          |  |          |          |              |          |            | Interferen |            |  | 1        |               |          |          |                 |           |          |                 |                 |   |   |   |
|   | -  Allov       |               |              |          |  | /ea      | ŀ              |                 | ÷                                      |             | R              | estri    | cted   | 1        |          |              |          |            | nte        | rfer       | er   | nce      |               | 0        | (        | Obje            | cte       | ed       | -               |                 |   |   |   |
|   |                |               |              |          |  |          |                |                 | ــــــــــــــــــــــــــــــــــــــ | •           |                |          |  |          | ٦-       | L            | l        |            |            | · <u>-</u> |  | J        | نلنا          | -        |          |                 |           |          |                 |                 |   |   |   |
| - | Cla            | aim           |              |          |  | Da       | ite            | <u> </u>        |  |             | Claim          |          |  |          |          | Dat          | te       |            |            | $\neg$     | .  | Ci       | aim           | Г        | Date     |                 |           |          |                 | 1               |   |   |   |
| • | l _            | <del>-</del>  |              |          |  |          |                |                 | П                                      | <u> </u>    |                | Τ        |  |          |          | ٦.           | Ţ.       | T          |            | -          |  |          |               | Т        | Т        |                 |           |          | $\neg \Gamma$   | $\overline{}$   |   |   |   |
| - | Final          | Original      |              |          |  |          |                |                 | ]                                      |             | Final          | Original | 1 1  | ı        |          |              |          |            |            |            |  | Final    | Original      | 1        |          |                 |           | • •      |                 |                 |   |   |   |
|   | u_             | ő             |              |          |  |          |                |                 |  | -           | iI.            | Ö        |  |          | i        |              | İ        | İ          |            |            |  | 這        | )rig          | 1 1      | İ        |                 |           | - 1      |                 |                 | ! |   |   |
|   | ļ <sub>1</sub> |               |              | -        | -  | +        | +-             | +-              | $\vdash$                               |             | ļ              | 1        | $\sqcup$   |          | _ _      | 4            |          | <u> </u>   |            | _          |  |          |               |          | $\perp$  |                 |           |          |                 |                 |   |   |   |
|   |                | $\frac{1}{2}$ |              |          | +  | +-       | +              | +               | $\vdash$                               | -           |                | 51<br>52 | <del>                                     </del> | -        |          | +-           | ╀—       | _          |            | _          |  |          | 101           | -        | -        | -               |           | _        | _ _             |                 | 1 |   |   |
|   |                | 3             | .            | 寸        | $\dashv$                                     | 1-       | - <del> </del> | ╁╌              | 1-1-                                   |             | <u> </u>       | 53       | ┼┼   |          |          | +            | -        |            |            | $\dashv$   |  |          | 102<br>103    | -        | - -      | -               |           | -        |                 | <del> </del>    | 1 |   |   |
|   |                | 4             |              |          | 7  | 1        | 1              | 1               |  |             | _              | 54       | <del>                                     </del> |          | +        | +            | ╁        | -          | $\vdash$   | -          |  | <u> </u> | 103           |          |          | ╁               |           |          | -               | $\vdash$        | ĺ |   |   |
|   |                | 5             |              |          | $\top$                                       |          |                | $\top$          |  |             | _              | 55       |  |          | $\dashv$ | +            | -        | $\vdash$   |            | $\dashv$   | í  |          | 105           | $\vdash$ | +        | +-+             | $\dashv$  |          | <del>-  -</del> | -               | ł |   |   |
|   |                | 6             |              | $\Box$   |  |          |                |                 |  |             |                | 56       |  | $\neg$   | +        | 1            | 1        | T          |            | T          |  |          | 106           |          | +        | $\vdash$        | -         | +        | - -             | -               | ĺ |   |   |
|   |                | 7             |              |          |  |          |                |                 |  |             |                | 57       |  | $\neg$   | 1        |              |          | _          |            |            |  |          | 107           |          | _        |                 | $\dashv$  |          |                 |                 | 1 |   |   |
|   |                | 8             |              | _        |  |          | _              | 1_              |  |             |                | 58       |  |          |          |              |          |            |            |            | - 1  |          | 108           |          | +        |                 | $\neg$    | 7        | - -             | $\vdash$        | i |   |   |
|   |                | 9             |              | <b>-</b> | +  |          | -              | -               | <u> </u>                               | _           |                | 59       |  | _ _      |          | ļ            |          |            |            |            | ĺ  |          | 109           |          |          |                 |           | 7        | $\neg$          | П               | 1 |   |   |
|   |                | 10<br>11      |              | $\dashv$ | +  | +        | ┼              | <del> </del>    | -                                      |             | <u> </u>       | 60       | -  | 4        | _ _      | _            |          |            |            | _          |  |          | 110           |          |          |                 | $\Box$    |          |                 |                 | i |   |   |
|   |                | 12            |              |          |  | -        | +-             | -               | -                                      |             |                | 61       | -  | 4        | 4        | $\perp$      |          |            |            | _          |  |          | 111           |          |          |                 |           |          |                 |                 | J |   |   |
|   |                | 13            |              | -        |  |          | +-             | -               |  |             |                | 62<br>63 | -  | -        |          |              | _        |            |            | ┥.         | .  |          | 112           |          | _ _      | 1_1             | _         | _ _      |                 |                 | Į |   |   |
|   |                | 14            | -            | -        |  | ╁        | +-             | -               |  | $\dashv$    |                | 64       |  |          |          | ┿            | $\vdash$ | -          | $\vdash$   |            | -  |          | 113           |          | -        | $\vdash$        |           | _ _      | _  _            | Ш               |   |   |   |
|   |                | 15            | -1           |          |  | -        | +              | ╁               | $\vdash$                               | $\dashv$    | ļ              | 65       |  | ╅        |          | -            |          | -          | $\vdash$   | $\dashv$   | . }  |          | 114<br>115    |          |          | +               | -         |          |                 | Ш               |   |   |   |
|   |                | 16            | 寸            | _        | ┰  | 1        | 1              |                 |  | $\dashv$    |                | 66       |  | ╁        | +-       | ╁            | Н        | _          | -          | $\dashv$   | •  |          | 116           | -        | -}-      | +               | -         |          |                 | $\vdash \vdash$ |   |   |   |
|   | •              | 17            |              |          |  |          |                |                 |  | 7           |                | 67       |  | 十        | +        | †-           | Н        |            | - †        | $\dashv$   | -  |          | 117           |          | -        |                 | +         |          |                 | $\vdash$        |   |   |   |
|   |                | 18            |              |          |  |          |                |                 |  |             |                | 68       |  | $\dashv$ | _        | $\top$       |          |            |            | ┪.         | Ì  |          | 118           |          | +        |                 | $\dashv$  | $\dashv$ | +               | $\vdash$        |   |   |   |
|   |                | 19            | _            |          |  |          |                |                 |  |             |                | 69       |  |          |          | Τ            |          |            |            | ╗          | Ì  |          | 119           |          | +        | $\vdash$        | +         | -        |                 | $\vdash$        |   |   |   |
|   |                | 20            |              |          | _ _  | 1_       | 4_             |                 | _                                      | _           |                | 70       |  |          |          |              |          |            |            |            |  |          | 120           |          | $\top$   |                 | $\exists$ |          |                 | $\Box$          |   |   |   |
|   |                | 21            |              | -        | 4  | +        | ╀              | -               |  | _           |                | 71       |  |          |          | _            |          |            | _          |            |  |          | 121           |          | I        |                 |           |          |                 |                 |   |   |   |
|   |                | 22<br>23      | $\dashv$     | -        | - -  | +-       | ┼              | $\vdash$        | $\vdash$                               | $\dashv$    |                | 72       |  | - -      |          | <u> </u>     | $\sqcup$ |            | _          | _          | ļ  |          | 122           |          |          | 1_1             | _         | _ _      |                 |                 |   |   |   |
| Ì |                | 24            | $\dashv$     | +        |  | +        | ╁╌             |                 |  | $\dashv$    |                | 73<br>74 |  | - -      |          | ┨—           | Н        |            |            | -          | -  |          | 123           | _        | - -      | -               | -         | _ -      | _ _             | Ш               |   |   |   |
| Ì |                | 25            | -            | _        | +  | ╁        | +-             | $\vdash$        |  | $\dashv$    |                | 75       | -  | +        | $\dashv$ |              | $\vdash$ |            |            | -          | ŀ  |          | 124<br>125    |          | +        |                 |           | - -      |                 | $\vdash$        |   |   |   |
|   |                | 26            | $\dashv$     | +        | -  |          | _              |                 | $\dashv$                               | 1           |                | 76       |  | 十        | +        | 1-           | Н        | $\dashv$   | -          | -          | ŀ  |          | 126           |          | ┰        |                 | +         |          | -               | $\vdash$        |   |   |   |
| ĺ |                | 27            |              |          |  |          |                |                 |  | 7           |                | 77       |  | +        | _        | 1            |          |            | 十          | $\dashv$   | ·ŀ   | ·        | 127           | -        | +        |                 | $\dashv$  |          | $\dashv$        | Н               |   |   |   |
|   |                | 28            |              |          |  |          |                |                 |  |             |                | 78       |  | $\top$   | 1        | 1-           | $\Box$   |            |            |            |  |          | 128           | _        | -        |                 | $\dashv$  | +        | +               |                 |   |   |   |
|   |                | 29            | _ .          |          |  | 1_       |                |                 |  |             |                | 79       |  |          |          |              | П        |            |            | ٦.         |  | :        | 129           |          | 1        |                 | _†        | $\dashv$ |                 | Н               |   |   |   |
|   |                | 30            |              | $\perp$  | _  | ↓_       | <del> </del>   | Ш               | _ _                                    | _           |                | 80       | _  |          |          |              |          |            |            |            | -[   |          | 130           |          |          |                 |           |          |                 |                 |   |   |   |
| } |                | 31            |              | +        | +  | +        | ╄              | $\vdash$        | 4                                      | -           |                | 81       | _ _  | _ _      | 4_       | _            | Ш        | _          | [          | _          |  |          | 131           | $\bot$   | 工        | $\Box$          |           |          |                 |                 |   |   |   |
| } |                | 33            |              |          | +  | -∤       | $\vdash$       |                 |  | -           |                | 82       | -  | -        | - -      | <del> </del> |          | $\dashv$   |            | _          | -  |          | 132           | -        |          | _               |           |          |                 |                 |   |   |   |
| ŀ |                | 34            | $\dashv$     | -        | +  | +        | -              | $\vdash \vdash$ | +                                      | -           |                | 83<br>84 |  | - -      |          | -            | $\vdash$ | $\dashv$   | -          | ┨.         | }  |          | 133           | +        | - -      | $\sqcup$        | _         |          | $\bot$          | Ш               |   |   |   |
| t |                | 35            | $\dashv$     | $\dashv$ | +  | +        | $\vdash$       | $\vdash$        | +                                      | -           |                | 85       |  | +        | +        | -            | H        | $\dashv$   | $\dashv$   | $\dashv$   | ŀ  |          | 134<br>135    | -        |          |                 |           |          |                 | $\vdash$        |   |   |   |
| Ì |                | 36            |              | ╅        |  | -        | †              | $\vdash$        | $\dashv$                               | ┨           |                | 86       | _  | +        | _        | $\vdash$     | $\vdash$ | ᅱ          | +          | -          | ·ŀ   | -        | 136           |          | ╁        | $\vdash$        | $\dashv$  |          |                 | $\vdash$        |   |   |   |
| Ī |                | 37            | $\neg$       |          |  | 1        | $\top$         | П               |  | ٦ i         |                | 87       |  | 十        | +        |              | $\vdash$ | 一          | -+         | $\dashv$   |  |          | 137           | _        | ╁        |                 | -         | $\dashv$ | +               | Н               |   |   |   |
| [ |                | 38            | $\Box$       |          |  |          |                |                 |  |             |                | 88       |  | $\top$   | -        | mi           |          | $\exists$  | 一          |            | .  | Ť        | 138           |          | +        | $\vdash$        | +         | +        |                 | Н               |   |   |   |
| ļ |                | 39            |              | _        | _  | Ŀ        | L              |                 | ·  _                                   | $\exists$ [ |                | 89       |  |          |          |              |          |            |            |            |  |          | 139           |          | $\top$   |                 |           | _ -      | $\top$          | Н               |   | • |   |
|   |                | 40            | _            | - -      | $\bot$                                       | ↓_       | <u> </u>       | $\sqcup$        | _ _                                    | <b>⊣</b> ↓  |                | 90       |  |          |          |              |          | $\Box$     | $\Box$     | _] ·       |  |          | 140           |          | I        |                 |           |          |                 |                 |   | - |   |
| } |                | 41 42         |              | +        | +-   | $\vdash$ |                | $\sqcup$        | +                                      |             |                | 91       | 4  | $\bot$   | -        | Ш            |          | 4          | $\perp$    |            | -  |          | 141           |          | $\perp$  | $\prod$         | $\bot$    | $\bot$   |                 |                 |   |   |   |
| } |                | 43            | +            |          | +  | ╁        | $\vdash$       | $\vdash$        | -                                      | <b>⊣</b> ∤  |                | 92       |  | 4        | ╁        | -            | $\dashv$ | 4          | _          | _  [       | L  |          | 142           |          | _        | $\sqcup$        | $\bot$    |          |                 | Ш               |   |   |   |
| } |                | 43            | +            | +        | +-   | $\vdash$ | $\vdash$       |                 | +-                                     | -{ }        |                | 93<br>94 | - -  | +        | +        | $\vdash$     |          | -          | -          | $\dashv$   | :  -   |          | 143           | -        | +        | $\sqcup$        | _         | $\perp$  | -               | Ш               |   |   |   |
| ŀ |                | 45            | +            | +        | +-   | $\vdash$ | $\vdash$       | $\vdash$        | +                                      | ┨.┟         |                | 95       | +  | - -      | ┥—       | $\vdash$     | -        | -          | $\dashv$   | $\dashv$   | -  |          | 144<br>145    | -        | +        | $\vdash \vdash$ | -         | +        |                 |                 |   |   |   |
| ŀ |                | 46            | - -          | $\top$   | 1  | $\vdash$ | $\vdash$       | $\vdash$        | +                                      | ┦ }         | <del>-  </del> | 96       | $\dashv$   | - -      | +-       | H            | $\dashv$ | $\dashv$   |            | - ∷        | :  -   |          | 146           |          | +        | $\vdash \vdash$ |           | +        | +               | $\vdash \vdash$ |   |   |   |
| Ì |                | 47            |              | 丁        | 1  |          | $\sqcap$       | $\vdash$        | 7                                      | ┤           |                | 97       | +  | +        | +-       | $\vdash$     | $\dashv$ | +          | $\dashv$   | $\dashv$   | 1  |          | 147           | $\dashv$ | +        | $\vdash$        | -         | ┽        | +-              | $\vdash$        |   |   |   |
|   |                | 48            |              |          | oxdot  |          |                |                 |  | ] [         |                | 98       | $\dashv$   | 1        | $\top$   | $  \cdot  $  | $\dashv$ | +          | +          | ┥.         | 1  |          | 148           | +        | +        | $\vdash \vdash$ | +         | ╁        | +               | H               |   |   |   |
|   |                | 49            |              | $\perp$  | $\perp$                                      |          | Ш              |                 | $\perp$                                | ] [         |                | 99       | ╛  | I        |          |              |          |            | $\top$     | 7          | 1  |          | 149           | $\dashv$ | 1        | $\Box$          | $\dashv$  | +        | $\top$          | Н               |   |   |   |
| L |                | 50            | $\perp$      |          |  | للل      | $oxed{oxed}$   | Ц.              |  | ] [         | $\Box$         | 100      |  | I        |          |              | コ        |            | 丁          |            |  |          | 150           |          |          |                 |           | 丁        |                 | $\square$       |   |   |   |
|   |                |               |              |          |  |          |                |                 |  |             |                |          |  |          |          |              |          | _          |            |            |  |          |               |          |          |                 |           |          |                 |                 |   |   |   |

Application/Control No.

Index of Claims

Applicant(s)/Patent under Reexamination